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# Datasheet for ABIN3044247 anti-NDUFA1 antibody (C-Term)

3 Images



#### Overview

Quantity:	100 µg
Target:	NDUFA1
Binding Specificity:	AA 54-70, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for NADH dehydrogenase[ubiquinone] 1 alpha subcomplex subunit 1(NDUFA1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human NDUFA1(54-70aa ISGVDRYYVSKGLENID), different from the related rat and mouse sequences by one amino acid.
Sequence:	ISGVDRYYVS KGLENID
lsotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for NADH dehydrogenase[ubiquinone] 1 alpha subcomplex subunit 1(NDUFA1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat. Gene Name: NADH dehydrogenase(ubiquinone) 1 alpha subcomplex, 1, 7.5 kDa Protein Name: NADH dehydrogenase[ubiquinone] 1 alpha subcomplex subunit 1

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## Product Details

Purification:

Immunogen affinity purified.

# Target Details

Target:	NDUFA1
Alternative Name:	NDUFA1 (NDUFA1 Products)
Background:	NDUFA1(NADH-UBIQUINONE OXIDOREDUCTASE 1 ALPHA SUBCOMPLEX, 1), also called
	MWFE, B. TAURUS, HOMOLOG OF, encodes a subunit of mitochondrial NADH: ubiquinone
	oxidoreductase, also known as mitochondrial complex I. The NDUFA1 gene is mapped to
	chromosome Xq24. The deduced polypeptide sequence of NDUFA1 was found to have an N-
	terminal hydrophobic domain, likely to be a transmembrane domain, and a C-terminal
	hydrophilic domain. And the NDUFA1 gene contains 3 exons and spans about 5.0 kb of
	genomic DNA. Complementation with hamster Ndufa1 cDNA restored the rotenone-sensitive
	complex I activity of these mutant cells to approximately 100 % of the parent cell activity. The
	findings established that the MWFE polypeptide is absolutely essential for an active complex I
	in mammals. The NDUFA1 peptide is one of about 31 components of the "hydrophobic
	protein"(HP) fraction of complex I which is involved in proton translocation. Thus the NDUFA1
	peptide may also participate in that function.
	Synonyms: CI MWFE antibody CI-MWFE antibody Complex I MWFE antibody complex I MWFE
	subunit antibody Complex I-MWFE antibody MWFE antibody MWFE, B. taurus, homolog of
	antibody NADH dehydrogenase(ubiquinone) 1 alpha subcomplex 1 7.5 kDa antibody NADH
	dehydrogenase(ubiquinone) 1 alpha subcomplex 1 antibody NADH dehydrogenase[ubiquinone]
	1 alpha subcomplex subunit 1 antibody NADH oxidoreductase subunit MWFE antibody NADH
	ubiquinone oxidoreductase(complex 1) antibody NADH ubiquinone oxidoreductase MWFE
	subunit antibody NADH-ubiquinone oxidoreductase 1 alpha subcomplex, 1 antibody NADH-
	ubiquinone oxidoreductase MWFE subunit antibody NDUA1_HUMAN antibody NDUFA 1
	antibody NDUFA1 antibody Type I dehydrogenase antibody ZNF 183 antibody ZNF183 antibody
UniProt:	015239
Application Details	
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse
	IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by
	Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the

staining of formalin/paraffin sections.

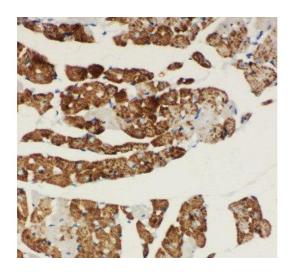
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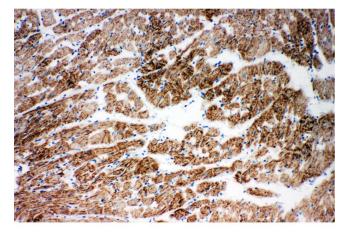
## **Application Details**

	IHC-F: Concentration: 0.5-1 $\mu$ g/mL, Tested Species: Rat, Predicted Species: Human, Mouse
	ICC: Concentration: 0.5-1 $\mu$ g/mL, Tested Species: Human, Predicted Species: Mouse, Rat
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be
	fit for the product based on sequence similarities. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P), IHC(F) and ICC.
Restrictions:	For Research Use only

# Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu$ g/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months





#### Immunohistochemistry

Image 1. Anti-NDUFA1 antibody, IHC(P) IHC(P): Rat Cardiac Muscle Tissue

#### Immunohistochemistry

Image 2. Anti-NDUFA1 antibody, IHC(F) IHC(F): Rat Cardiac Muscle Tissue

Ð	Western Blotting
D	Image 3. Anti-NDUFA1 antibody, Western blotting Lane 1:
D	Rat Cardiac Muscle Tissue Lysate Lane 2: Rat Liver Tissue
D	Lysate Lane 3: Rat Kidney Tissue Lysate Lane 4: Rat Brain
D	Tissue Lysate Lane 5: Cell Lysate

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